This Listing of Claims will replace all prior versions, and listings, of claims in the

application:

LISTING OF CLAIMS:

Claim 1 (original) A deployed stent in the form of a thin-walled, multi-cellular, tubular

structure having a longitudinal axis, the stent comprising:

a multiplicity of circumferential sets of strut members, each set of strut members

being longitudinally separated each from the other and each set of strut members forming

a closed, ring-like cylindrical portion of the stent, each set of strut members consisting of

a multiplicity of strut elements, each strut element consisting of one curved section joined

at a junction point to one diagonal section with each junction point being an end point of

each curved section;

a multiplicity of generally longitudinally disposed sets of flexible links with each

set of flexible links connecting two of the multiplicity of circumferential sets of strut

members, each set of flexible links consisting of a multiplicity of individual flexible

links, each individual flexible link being a single undulating structure that extends

generally in the longitudinal direction that is parallel to the stent's longitudinal axis and at

least one flexible link being selected from the group that includes "M" links and "W"

links; and

Page 2 of 10

MR1811-48/DIV

Serial Number: 10/717,470

Reply to Office Action dated 8 March 2006

the sets of strut members and connecting flexible links together forming a

multiplicity of closed perimeter cells, at least half of all closed perimeter cells having an

inside perimeter length greater than 9 mm.

Claim 2 (original) The deployed stent of claim 1 wherein at least half of the closed

perimeter cells having an inside area of less than 0.005 square inches at the designed limit

of expansion for the stent.

Claim 3 (withdrawn) The deployed stent of claim 2 wherein the shape of at least one of

the individual flexible links is selected from a group that includes "N" shaped links and

inverted "N" shaped links, each of said links having at least four generally longitudinal

extending curved segments.

Claim 4 (original) The deployed stent of claim 1 wherein at least half of the closed

perimeter cells have an inside metal perimeter length that is less than 11 mm.

Claim 5 (original) A stent in the form of a thin-walled, multi-cellular, tubular structure

having a longitudinal axis, the stent comprising:

a multiplicity of circumferential sets of strut members, each set of strut members

being longitudinally separated each from the other and each set of strut members forming

a closed, ring-like cylindrical portion of the stent, each set of strut members consisting of

Page 3 of 10 ·

a multiplicity of strut elements, each strut element consisting of one curved section joined

at a junction point to one diagonal section; and

a multiplicity of sets of flexible links with each set of flexible links connecting

two of the multiplicity of sets of strut members, each set of flexible links consisting of a

multiplicity of individual flexible links, each individual flexible link being a single

undulating structure that extends generally in the longitudinal direction that is parallel to

the stent's longitudinal axis and each individual flexible link having two ends that are

fixedly attached to an adjacent set of strut members; the shape of at least some of the

flexible links being selected from a group that includes "M" links and "W" links, wherein

each of said links have at least five generally longitudinally extending curved segments,

each flexible link having a proximal attachment point to a curved section of one

circumferential set of strut members and a distal attachment point to a curved section of a

second circumferential set of strut members, each individual flexible link having a

maximum circumferential extent that is approximately the same as measured from each

side of a line drawn between the proximal attachment point and the distal attachment

point of that individual flexible link.

Claim 6 (canceled).

Page 4 of 10

Claim 7 (original) A stent in the form of a thin-walled, multi-cellular, tubular

structure having a longitudinal axis, the stent comprising a multiplicity of

circumferential sets of strut members, each set of strut members being

longitudinally separated each from the other and each set of strut members

forming a closed, cylindrical portion of the stent, each set of strut members

comprising a multiplicity of connected curved sections and diagonal sections, the

sets of strut members including end sets of strut members located at each end of

the stent and central sets of strut members positioned between the end sets of strut

members, the curved sections of the central sets of strut members having a

generally greater width than the width of the curved sections of the end sets of

strut members and the diagonal sections of the central sets of strut members

having a greater length as compared to the length of the diagonal sections of the

end sets of strut members so as to provide approximately matched radial strength

for the central sets of strut members and the end sets of strut members.

Claim 8 (original) The stent of claim 7 wherein the width of the curved sections of

the central sets of strut members is at least 0.0005 inch greater than the width of

the curved sections of the end sets of strut members.

Page 5 of 10

Claim 9 (original) The stent of claim 7 wherein the length of the diagonal sections

of the central sets of strut members is at least 0.001 inch greater than the length of

the diagonal sections of the end sets of strut members.

Claim 10 (original) A stent in the form of a thin-walled, multi-cellular, tubular

structure having a longitudinal axis, the stent comprising a multiplicity of

circumferential sets of strut members, each set of strut members being

longitudinally separated each from the other and connected each to the other by

one or more longitudinally extending links, each set of strut members forming a

closed, cylindrical portion of the stent, each set of strut members comprising a

multiplicity of connected curved sections and diagonal sections, the sets of strut

members including end sets of strut members located at each end of the stent and

central sets of strut members positioned between the end sets of strut members, the

end sets of strut members having greater wall thickness than the wall thickness of

the central sets of strut members so as to increase the radiopacity of the end sets of

strut members.

Claim 11 (original) A stent in the form of a thin-walled, multi-cellular, tubular

structure having a longitudinal axis, the stent comprising a multiplicity of

circumferential sets of strut members, each set of strut members being

longitudinally separated each from the other and connected each to the other by

Page 6 of 10

one or more longitudinally extending links, each set of strut members forming a

closed, cylindrical portion of the stent, each set of strut members comprising a

multiplicity of connected curved sections and diagonal sections, the sets of strut

members including end sets of strut members located at each end of the stent and

central sets of strut members positioned between the end sets of strut members,

each of the sets of strut members being coated with a highly radiopaque metal, the

end sets of strut members having a greater wall thickness of the highly radiopaque

coating as compared to a lesser thickness of the radiopaque coating on the central

sets of strut members so as to have an increased radiopacity of the end sets of strut

members.

Claim 12 (original) The stent of claim 11 wherein the highly radiopaque metal is

gold.

Claim 13 (original) The stent of claim 11 wherein the highly radiopaque metal is

coated with a plastic material.

Claim 14 (original) The stent of claim 11 wherein the plastic coating is parylene.

Claim 15-18 (canceled).

Claim 19 (withdrawn) A stent in the form of a thin-walled, multi-cellular, tubular structure having a longitudinal axis, the stent comprising a multiplicity of circumferential sets of strut members, each set of strut members being longitudinally separated each from the other and connected each to the other by one or more longitudinally extending links, each set of strut members forming a closed, cylindrical portion of the stent, each set of strut members comprising a multiplicity of connected curved sections and diagonal sections, the sets of strut members including end sets of strut members located at each end of the stent and central sets of strut members positioned between the end sets of strut members, the diagonal sections of the end sets of strut members have a center and two ends, at least one of the diagonal sections of the end sets of strut members has a tapered shape wherein the width of the at least one diagonal section is greater at the center of the diagonal section as compared to the width at either end of that diagonal section.